

WHAT IS CLAIMED IS:

1. A performance controller comprising:

a performance scheduler that creates a performance schedule showing a plurality of performance levels of an electronic device, based on a charge level of a battery used in the electronic device and a table of times at which application programs are executed in the electronic device; and

a mode controller that sets operation modes of components of the electronic device based on the performance schedule.

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2. The performance controller according to claim 1, wherein the performance scheduler further creates a charge level schedule showing change in the charge level; and

the mode controller sets the operation modes based on a comparison of an actual charge level of the battery with the charge level schedule.

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3. The performance controller according to claim 1, further comprising a charge counter that counts charge cycles of the battery, wherein

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the performance scheduler estimates the charge level based on the charge cycles, and creates the performance schedule based on the charge level estimated.

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4. The performance controller according to claim 1, wherein the table is an application schedule showing application programs that are registered in a timetable, and the timetable is recorded in the electronic device by a user of the electronic device.

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5. The performance controller according to claim 4, wherein the application programs are classified into a plurality of categories based on load required for executing the application programs, and

10 the performance scheduler determines the application schedule by estimating the application programs from names of the categories that are registered in the timetable.

6. The performance controller according to claim 1, wherein

15 the performance scheduler estimates power consumption of the electronic device based on the table, and notifies a warning to a user of the electronic device when the power consumption is larger than an actual charge level of the battery.

20 7. The performance controller according to claim 1, wherein

the mode controller notifies a warning to a user of the electronic device when an application program that requires load higher than the application programs recorded in the table is executed.

25 8. The performance controller according to claim 2, wherein

the mode controller changes the performance schedule so that power consumption of the electronic device decreases, when the actual charge level is less than a corresponding charge level in the charge level schedule.

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9. A performance controller comprising:

a storage unit that stores a performance schedule showing a plurality of performance levels of the electronic device, the performance schedule being created based on a charge level of a battery used in the electronic device and a table of times at which application programs are executed in the electronic device; and

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a mode controller that sets operation modes of components of the electronic device based on the performance schedule.

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10. The performance controller according to claim 9, wherein

the storage unit further stores a charge level schedule showing change in the charge level; and

the mode controller sets the operation modes based on a comparison of an actual charge level of the battery with the charge

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level schedule.

11. An electronic device which is operated by a battery, comprising:

a performance scheduler that creates a performance schedule showing a plurality of performance levels of the electronic device,

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based on a charge level of the battery and a table of times at which

application programs are executed in the electronic device; and

a mode controller that sets operation modes of components of the electronic device based on the performance schedule.

- 5 12. An electronic device which is operated by a battery, comprising:
a storage unit that stores a performance schedule showing a plurality of performance levels of the electronic device, the performance schedule being created based on a charge level of the battery and a table of times at which application programs are executed in the

10 electronic device; and

a mode controller that sets operation modes of components of the electronic device based on the performance schedule.

13. A method of controlling performance levels of an electronic
15 device, comprising:

creating a performance schedule that shows a plurality of performance levels of the electronic device, based on a charge level of a battery used in the electronic device and a table of times at which application programs are executed in the electronic device; and

20 setting operation modes of components of the electronic device based on the performance schedule.

14. A method of controlling performance levels of an electronic device, comprising:

25 acquiring from a storage unit a performance schedule showing a

plurality of performance levels of the electronic device, the performance schedule being created based on a charge level of a battery used in the electronic device and a table of times at which application programs are executed in the electronic device; and

5 setting operation modes of components of the electronic device based on the performance schedule.

15. A computer program product for controlling performance levels of an electronic device, the computer program product including
10 computer executable instructions stored on a computer readable medium, wherein the instructions, when executed by the computer, cause the computer to perform:

 creating a performance schedule that shows a plurality of performance levels of the electronic device, based on a charge level of
15 a battery used in the electronic device and a table of times at which application programs are executed in the electronic device; and
 setting operation modes of components of the electronic device based on the performance schedule.

20 16. A computer program product for controlling performance levels of an electronic device, the computer program product including computer executable instructions stored on a computer readable medium, wherein the instructions, when executed by the computer, cause the computer to perform:

25 acquiring from a storage unit a performance schedule showing a

plurality of performance levels of the electronic device, the performance schedule being created based on a charge level of a battery used in the electronic device and a table of times at which application programs are executed in the electronic device; and

- 5 setting operation modes of components of the electronic device based on the performance schedule.